

STIC Biotechnology Systems Branch

RAW SEQUENCE LISTING

ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 10/573,718A
Source: IFWP
Date Processed by STIC: 1/16/07

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION AND PATENTIN SOFTWARE QUESTIONS, PLEASE CONTACT MARK SPENCER, TELEPHONE: 571-272-2510; FAX: 571-273-0221

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 4.4.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW FOR ADDRESS:

<http://www.uspto.gov/web/offices/pac/checker/chkrnote.htm>

Applicants submitting genetic sequence information electronically on diskette or CD-Rom should be aware that there is a possibility that the disk/CD-Rom may have been affected by treatment given to all incoming mail.

Please consider using alternate methods of submission for the disk/CD-Rom or replacement disk/CD-Rom.

Any reply including a sequence listing in electronic form should NOT be sent to the 20231 zip code address for the United States Patent and Trademark Office, and instead should be sent via the following to the indicated addresses:

1. EFS-Bio (<<http://www.uspto.gov/ebc/efs/downloads/documents.htm>> , EFS Submission User Manual - ePAVE)
2. U.S. Postal Service: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450
3. Hand Carry, Federal Express, United Parcel Service, or other delivery service (EFFECTIVE 01/14/05):
U.S. Patent and Trademark Office, Mail Stop Sequence, Customer Window, Randolph Building, 401 Dulany Street, Alexandria, VA 22314

Revised 01/10/06

Raw Sequence Listing Error Summary

ERROR DETECTED

SUGGESTED CORRECTION

SERIAL NUMBER:

10/573,718A

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics
 Wrapped Aminos The number/text at the end of each line "wrapped" down to the next line. This may occur if your file was retrieved in a word processor after creating it. Please adjust your right margin to .3; this will prevent "wrapping."

- 2 Invalid Line Length The rules require that a line not exceed 72 characters in length. This includes white spaces.

- 3 Misaligned Amino
 Numbering The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.

- 4 Non-ASCII The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.

- 5 Variable Length Sequence(s) contain n's or Xaa's representing more than one residue. Per Sequence Rules, each n or Xaa can only represent a single residue. Please present the maximum number of each residue having variable length and indicate in the <220>-<223> section that some may be missing.

- 6 PatentIn 2.0
 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequences(s) . Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies to the mandatory <220>-<223> sections for Artificial or Unknown sequences.

- 7 Skipped Sequences
 (OLD RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence:
 (2) INFORMATION FOR SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 (i) SEQUENCE CHARACTERISTICS: (Do not insert any subheadings under this heading)
 (xi) SEQUENCE DESCRIPTION:SEQ ID NO:X: (insert SEQ ID NO where "X" is shown)
 This sequence is intentionally skipped
 Please also adjust the "(ii) NUMBER OF SEQUENCES:" response to include the skipped sequences.

- 8 Skipped Sequences
 (NEW RULES) Sequence(s) missing. If intentional, please insert the following lines for each skipped sequence.
 <210> sequence id number
 <400> sequence id number
 000

- 9 Use of n's or Xaa's
 (NEW RULES) Use of n's and/or Xaa's have been detected in the Sequence Listing.
 Per 1.823 of Sequence Rules, use of <220>-<223> is MANDATORY if n's or Xaa's are present.
 In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.

- 10 Invalid <213>
 Response Per 1.823 of Sequence Rules, the only valid <213> responses are: Unknown, Artificial Sequence, or scientific name (Genus/species). <220>-<223> section is required when <213> response is Unknown or is Artificial Sequence. (see item 11 below)

- 11 Use of <220> Sequence(s) missing the <220> "Feature" and associated numeric identifiers and responses. Use of <220> to <223> is MANDATORY if <213> "Organism" response is "Artificial Sequence" or "Unknown."
 Please explain source of genetic material in <220> to <223> section or use "chemically synthesized" as explanation. (See "Federal Register," 06/01/1998, Vol. 63, No. 104, pp. 29631-32), also Sec. 1.823 of Sequence Rules

- 12 PatentIn 2.0
 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing). Instead, please use "File Manager" or any other manual means to copy file to floppy disk.

- 13 Misuse of n/Xaa "n" can only represent a single nucleotide; "Xaa" can only represent a single amino acid



IFWP

RAW SEQUENCE LISTING

DATE: 01/18/2007

PATENT APPLICATION: US/10/573,718A

TIME: 17:05:19

Input Set : N:\Cr4\01162007\J573728A.raw

Output Set : N:\CRF4\01182007\J573718A.raw

Does Not Comply
Corrected Diskette Needed

1 <110> APPLICANT: Toraya, Tetsuo
 2 Tobimatsu, Takamasa
 3 Yamanishi, Mamoru
 4 Mori, Kouichi
 5 Kajiura, Hideki
 6 Yamada, Seiki
 7 Yuzuki, Michio
 8 Azuma, Muneaki
 9 Hara, Tetsuya
 10 Yasuda, Shinzo
 11 <120> TITLE OF INVENTION: Method for Production of 3-hydroxypropionaldehyde
 12 <130> FILE REFERENCE: 08917-116US1
 C--> 13 <140> CURRENT APPLICATION NUMBER: US/10/573,718A
 14 <141> CURRENT FILING DATE: 2006-03-27
 15 <150> PRIOR APPLICATION NUMBER: PCT/JP2004/014213
 16 <151> PRIOR FILING DATE: 2004-09-29
 17 <150> PRIOR APPLICATION NUMBER: JP 2003-337663
 18 <151> PRIOR FILING DATE: 2003-09-29
 19 <160> NUMBER OF SEQ ID NOS: 4
 20 <170> SOFTWARE: PatentIn version 3.1
 22 <210> SEQ ID NO: 1
 23 <211> LENGTH: 7183
 24 <212> TYPE: DNA
 25 <213> ORGANISM: plasmid pBR322
 26 <400> SEQUENCE: 1
 27 acgttatcga ctgcacggtg caccaatgct tctggcgctca ggcagccatc ggaagctgtg 60
 28 gtatggctgt gcaggtcgta aatcactgca taattcgtgt cgctcaaggc gcactcccgt 120
 29 tctggataat gttttttgcg cgcacatcat aacggttctg gcaaattatc tgaaatgagc 180
 30 tggtgacaat taatcatcgg ctctgtataat gtgtggaatt gtgagcggat aacaatttca 240
 31 cacaggaaac agtacatatg agatcgaaaa gatttgaagc actggcgaaa cgccctgtga 300
 32 atcaggacgg ctctggttaag gagtggatcg aagaaggctt tatcgcgatg gaaagcccga 360
 33 acgacccaaa accgtcgatt aaaatcgtta acggcgcggt gaccgagctg gacgggaaac 420
 34 cggtaagcga ttttgacctg atcgaccact ttatcgcccc ctacggatc aacctgaacc 480
 35 gcgccgaaga agtcatggcg atggattcgg tcaagctggc caacatgctg tgcgatccga 540
 36 acgttaaacy cagcgaaatc gtcccgtgga ccaccgcgat gacgccggcg aaaattgtcg 600
 37 aagtggtttc gcatatgaac gtcgtcgaga tgatgatggc gatgcagaaa atgcgcgccc 660
 38 gccgcacccc gtcccagcag gcgcacgtca ccaacgtcaa agataacccg gtacagattg 720
 39 ccgccgacgc gcgccgaagg gcatggcgcg gatttgacga acaggaaacc accgttgcg 780
 40 tagcgcgcta tgcgccgttc aacgccatcg cgctgctggt gggctcgag gtaggccgtc 840
 41 cgggcgtgct gacgcagtgc tcgctggaag aagccaccga gctgaagctc ggcattgctg 900
 42 gccacacctg ctacgccgaa accatctccg tctacggcac cgagccggtc tttaccgacg 960
 43 gcgacgacac gccgtggctg aagggcttcc tcgcctcgtc ctacgcctct cgcgggctga 1020
 44 aaatgcgctt tacctccggc tccggctcgg aagtgcagat gggctacgcc gaaggcaa 1080

see pp 114

invalid response-see item 10 on Enon
summary
sheet

RAW SEQUENCE LISTING

DATE: 01/18/2007

PATENT APPLICATION: US/10/573,718A

TIME: 17:05:19

Input Set : N:\Cr4\01162007\J573728A.raw

Output Set: N:\CRF4\01182007\J573718A.raw

45	ccatgcttta	tctggaagcg	cgctgcatct	acatcaccaa	agccgcgggc	gtacagggtc	1140
46	tgcaaaacgg	ttccgtaagc	tgcacgcggc	tgccgtctgc	ggtgccttcc	ggcattcgcg	1200
47	cggtgctggc	ggaaaacctg	atctgttcgt	cgctggatct	ggagtgcgcc	tccagcaacg	1260
48	accagacctt	cacccactcc	gatatgcgtc	gtaccgcgcg	cctgctgatg	cagttcctgc	1320
49	cgggcaccga	ctttatctcc	tccggttatt	ccgcggtgcc	gaactacgac	aacatgttcg	1380
50	ccggctccaa	cgaagatgcc	gaagactttg	acgactacaa	cgtcatccag	cgcgacctga	1440
51	aggtggacgg	cggtttgctg	ccggttcgcg	aagaggacgt	catcgccatc	cgtaacaaag	1500
52	ccgcccgcgc	gctgcaggcc	gtgtttgcgc	gaatggggct	gccgccgatt	accgatgaag	1560
53	aagttgaagc	cgcgacctac	gcccacgggt	cgaagatat	gccggagcgc	aacatcgctc	1620
54	aagacatcaa	gttcgcccag	gaaatcatca	ataaaaaccg	caacggctctg	gaagtgggtga	1680
55	aagcgctggc	gcagggcgga	ttcacgcagc	tggcccagga	catgctcaac	atccagaaag	1740
56	ctaagctgac	cggggactac	ctgcatacct	ccgcgattat	cgtcggcgac	gggcagggtc	1800
57	tgtcagccgt	caacgacgtc	aacgactatg	ccggtccggc	aacgggctat	cgcctgcagg	1860
58	gcgaacgctg	ggaagagatt	aaaaacatcc	ctggcgctct	tgatcccaac	gagattgatt	1920
59	aaggggtgag	aaatggaaat	taatgaaaaa	ttgctgcgcc	agataattga	agacgtgctc	1980
60	agcgagatga	agggcagcga	taaaccggtc	tcgtttaatg	cgccggcggc	ctccgcggcg	2040
61	ccccaggcca	cgccgcccgc	cggcgacggc	ttcctgacgg	aagtgggcga	agcgcgtcag	2100
62	ggaaccacgc	aggacgaagt	gattatcgcc	gtcggcccgc	ctttcggcct	ggcgagacc	2160
63	gtcaatatcg	tcggcatccc	gcataagagc	attttgcgcg	aagtcattgc	cggtattgaa	2220
64	gaagaaggca	ttaaggcgcg	cgtgattcgc	tgctttaaat	cctccgacgt	ggccttcgtc	2280
65	gccgttgaag	gtaatcgctc	gagcggctcc	ggcatctcta	tcggcatcca	gtcgaagggc	2340
66	accacggtga	tccaccagca	ggggctgccg	ccgctctcta	acctggagct	gttcccgcag	2400
67	gcgccgctgc	tgaccttgga	aacctatcgc	cagatcggca	aaaacgcccgc	ccgctatgcg	2460
68	aaacgcgaat	cgccgcagcc	ggtcccagac	ctgaatgacc	agatggcgcg	gccgaagtac	2520
69	caggcgaat	cggccatttt	gcacattaaa	gagaccaagt	acgtggtgac	gggcaaaaac	2580
70	ccgcaggaac	tgcgctggc	gctttgataa	aggataactc	catgaatacc	gacgcaattg	2640
71	aatcgatggt	acgcgacgta	ttgagccgca	tgaacaggct	gcaggcgag	gcgcctgcgg	2700
72	cggctccggc	ggctggcggc	gcgtcccgtg	gcgccagggt	cagcgactac	ccgctggcga	2760
73	acaagcacc	ggaatgggtg	aaaaccgcca	ccaataaaaac	gctggacgac	tttacgctgg	2820
74	aaaacgtgct	gagcaataaa	gtcacgcgcc	aggatatgcg	tattaccccg	gaaaccctgc	2880
75	gcttacaggc	ttctattgcc	aaagacgcgg	gccgcgaccg	gctggcgatg	aacttcgagc	2940
76	gcgccgccga	gctgaccgcg	gtaccggacg	atcgcttct	tgaaatctac	aacgccctcc	3000
77	gcccctatcg	ctcgacgaaa	gaggagctgc	tggcgatcgc	cgacgatctc	gaaagccgct	3060
78	atcaggcgaa	gatttgcgcc	gctttcgctc	gcgaagcggc	cacgctgtac	gtcgagcgta	3120
79	aaaaactcaa	aggcgacgat	taacttcatt	ccgggcccgt	cgacagatcc	ccgggaattc	3180
80	atcgtgactg	actgacgatc	tgccctcgcg	gtttcgggtg	tgacgggtgaa	aacctctgac	3240
81	acatgcagct	cccggagacg	gtcacagctt	gtctgtaagc	ggatgccggg	agcagacaag	3300
82	cccgctcagg	cgcgtcagcg	ggtgttggcg	ggtgtcgggg	cgcagccatg	accagtcac	3360
83	gtagcgatag	cggagtgtat	aattcttgaa	gacgaaagg	cctcgtgata	cgcctathtt	3420
84	tataggttaa	tgtcatgata	ataatggttt	cttagacgtc	aggtggcact	tttcggggaa	3480
85	atgtgcgcgg	aaccctattt	tgtttatttt	tctaaataca	ttcaaataatg	tatccgctca	3540
86	tgagacaata	accctgataa	atgcttcaat	aatattgaaa	aaggaagagt	atgagtattc	3600
87	aacatttccg	tgctgccttt	attccctttt	ttgcggcatt	ttgccttctc	gtttttgctc	3660
88	accagaaac	gctggtgaaa	gtaaaagatg	ctgaagatca	gttgggtgca	cgagtgggtt	3720
89	acatcgaact	ggatctcaac	agcggtaaga	tccttgagag	ttttcgcccc	gaagaacgtt	3780
90	ttccaatgat	gagcactttt	aaagttctgc	tatgtggcgc	ggtattatcc	cgtgttgacg	3840
91	ccgggcaaga	gcaactcggg	cgccgcatac	actattctca	gaatgacttg	gttgagtact	3900
92	caccagtcac	agaaaagcat	cttacggatg	gcatgacagt	aagagaatta	tgcatgtctg	3960
93	ccataacccat	gagtataaac	actgcggcca	acttacttct	gacaacgatc	ggaggaccga	4020

RAW SEQUENCE LISTING

DATE: 01/18/2007

PATENT APPLICATION: US/10/573,718A

TIME: 17:05:19

Input Set : N:\Cr4\01162007\J573728A.raw

Output Set: N:\CRF4\01182007\J573718A.raw

94	aggagctaac	cgcttttttg	cacaacatgg	gggatcatgt	aactcgcctt	gatcgttggg	4080
95	aaccggagct	gaatgaagcc	ataccaaacg	acgagcgtga	caccacgatg	cctgcagcaa	4140
96	tggcaacaac	gttgcgcaaa	ctattaactg	gcgaactact	tactctagct	tcccggcaac	4200
97	aattaataga	ctggatggag	gcggataaag	ttgcaggacc	acttctgcgc	tgggcccttc	4260
98	cggctggctg	gtttattgct	gataaatctg	gagccggtga	gcgtgggtct	cgcggtatca	4320
99	ttgcagcact	ggggccagat	ggtaagccct	cccgtatcgt	agttatctac	acgacgggga	4380
100	gtcaggcaac	tatggatgaa	cgaaatagac	agatcgctga	gataggtgcc	tactgatta	4440
101	agcattggta	actgtcagac	caagtttact	catatatact	ttagattgat	ttaaaacttc	4500
102	atttttaatt	taaaaggatc	taggtgaaga	tcctttttga	taatctcatg	acaaaaatcc	4560
103	cttaacgtga	gttttcgttc	cactgagcgt	cagaccccg	agaaaagatc	aaaggatctt	4620
104	cttgagatcc	tttttttctg	cgcgtaatct	gctgcttgca	aacaaaaaaa	ccaccgctac	4680
105	cagcggtggt	ttgtttgcgc	gatcaagagc	taccaactct	ttttccgaag	gtaactggct	4740
106	tcagcagagc	gcagatacca	aatactgtcc	ttctagtgtg	gccgtagtta	ggccaccact	4800
107	tcaagaactc	tgtagcaccc	cctacatacc	tcgctctgct	aatcctgtta	ccagtggctg	4860
108	ctgccagtgg	cgataagtgc	tgtcttaccg	ggttggactc	aagacgatag	ttaccggata	4920
109	aggcgcagcg	gtcgggctga	acgggggggt	cgtgcacaca	gcccagcttg	gagcgaacga	4980
110	cctacaccga	actgagatac	ctacagcgtg	agctatgaga	aagcgccacg	cttcccgaag	5040
111	ggagaaaggc	ggacaggtat	ccggttaagc	gcagggtcgg	aacaggagag	cgcacgaggg	5100
112	agcttccagg	gggaaacgcc	tggatatctt	atagtcctgt	cgggtttcgc	cacctctgac	5160
113	ttgagcgtcg	attttttgtg	tgctcgtcag	gggggaggag	cctatggaaa	aacgccagca	5220
114	acgcggcctt	tttacggttc	ctggcctttt	gctggccttt	tgctcacatg	ttctttcctg	5280
115	cgttatcccc	tgattctgtg	gataaccgta	ttaccgcctt	tgagtgaagt	gataccgctc	5340
116	gccgcagccg	aacgaccgag	cgcagcagat	cagtgaagca	ggaagcggaa	gagcgcctga	5400
117	tgcggatatt	tctccttacg	catctgtgcg	gtatttcaca	ccgcataaat	tccgacacca	5460
118	tcgaatggtg	caaaaccttt	cgcgggtatg	catgatagcg	cccgggaagag	agtcaattca	5520
119	gggtggtgaa	tgtgaaacca	gtaacgttat	acgatgtcgc	agagtatgcc	ggtgtctctt	5580
120	atcagaccgt	ttcccgcgtg	gtgaaccagg	ccagccacgt	ttctgcgaaa	acgcgggaaa	5640
121	aagtggaaag	ggcgatggcg	gagctgaatt	acattcccaa	ccgcgtggca	caacaactgg	5700
122	cgggcaaaaca	gtcgttgctg	attggcgttg	ccacctccag	tctggccctg	cacgcgcgt	5760
123	cgcaaatgtg	cgcggcgatt	aaatctcgcg	ccgatcaact	gggtgccagc	gtggtggtgt	5820
124	cgatggtaga	acgaagcggc	gtcgaagcct	gtaagcggc	ggtgcacaat	cttctcgcgc	5880
125	aacgcgtcag	tgggctgatc	attaactatc	cgctggatga	ccaggatgcc	attgctgtgg	5940
126	aagctgcttg	cactaatgtt	ccggcgttat	ttcttgatgt	ctctgaccag	acacccatca	6000
127	acagtattat	tttctcccat	gaagacggta	cgcgactggg	cgtggagcat	ctggtcgcat	6060
128	tgggtcacca	gcaaatcgcg	ctgttagcgg	gcccatthaag	ttctgtctcg	gcgcgtctgc	6120
129	gtctggctgg	ctggcataaa	tatctcactc	gcaatcaaat	tcagccgata	gcggaacggg	6180
130	aaggcgactg	gagtgccatg	tccggttttc	aacaaacat	gcaaatgctg	aatgagggca	6240
131	tcgttcccac	tgcatgctg	gttgccaacg	atcagatggc	gctgggcgca	atgcgcgcca	6300
132	ttaccgagtc	cgggctgcgc	gttgggtgcg	atatctcggt	agtgggatac	gacgataccg	6360
133	aagacagctc	atgttatatc	ccgccgttaa	ccaccatcaa	acaggatttt	cgctgctgg	6420
134	ggcaaaccag	cgtggaccgc	ttgctgcaac	tctctcaggg	ccaggcgggtg	aagggcaatc	6480
135	agctgttgcc	cgtctcactg	gtgaaaagaa	aaaccaccct	ggcgcccaat	acgcaaaccg	6540
136	cctctccccg	cgcgttggcc	gattcattaa	tgcagctggc	acgacaggtt	tcccagctgg	6600
137	aaagcgggca	gtgagcgcaa	cgcaattaat	gtgagtttag	tactcatta	ggcaccctag	6660
138	gctttacact	ttatgcttcc	ggctcgtatg	ttgtgtggaa	ttgtgagcgg	ataacaattt	6720
139	cacacaggaa	acagctatga	ccatgattac	ggattcactg	gccgtcgttt	tacaacgtcg	6780
140	tgactgggaa	aaccctggcg	ttaccctaat	taatcgctt	gcagcacatc	cccctttcgc	6840
141	cagctggcgt	aatagcgaag	aggcccgcac	cgatcgccct	tcccaacagt	tgcgcagcct	6900
142	gaatggcgaa	tggcgctttg	cctggtttcc	ggcaccagaa	gcggtgccgg	aaagctggct	6960

RAW SEQUENCE LISTING

DATE: 01/18/2007

PATENT APPLICATION: US/10/573,718A

TIME: 17:05:19

Input Set : N:\Cr4\01162007\J573728A.raw

Output Set: N:\CRF4\01182007\J573718A.raw

143	ggagtgcgat	cttcctgagg	ccgatactgt	cgctcgcccc	tcaaactggc	agatgcacgg	7020
144	ttacgatgcg	cccactctaca	ccaacgtaac	ctatcccatt	acgggtcaatc	cgccgtttgt	7080
145	tcccacggag	aatccgacgg	gttggttactc	gctcacattt	aatggtgatg	aaagctggct	7140
146	acaggaaggc	cagacgcgaa	ttatttttga	tggcggttga	att		7183
148	<210>	SEQ ID NO: 2					
149	<211>	LENGTH: 6607					
150	<212>	TYPE: DNA					
151	<213>	ORGANISM: <u>plasmid p15A</u>	<i>same error - sequence 3 and 4 have same error</i>				
152	<400>	SEQUENCE: 2					
153	gaattaattc	tggcgaatcc	tctgaccagc	cagaaaacga	cctttctgtg	gtgaaaccgg	60
154	atgctgcaat	tcagagcgcc	agcaagtggg	ggacagcaga	agacctgacc	gccgcagagt	120
155	ggatgtttga	catggtgaag	actatcgcac	catcagccag	aaaaccgaat	tttgctgggt	180
156	gggctaacga	tatccgcctg	atgctgtaac	gtgacggacg	taaccaccgc	gacatgtgtg	240
157	tgctgttccg	ctgggcatgc	caggacaact	tctggtccgg	taacgtgctg	agcccggcca	300
158	agcttactcc	ccatccccct	gttgacaatt	aatcatcggc	tctgataatg	tgtggaattg	360
159	tgagcggata	acaatttcac	acaggaaaca	ggatcctagg	aggtttaaac	atatgcgata	420
160	tatagctggc	attgatatcg	gcaactcatc	gacggaagtc	gccctggcga	ccctggatga	480
161	ggctggcgcg	ctgacgatca	cccacagcgc	gctggcggaa	accaccggaa	tcaaaggcac	540
162	gttgcgtaac	gtgttcggga	ttcaggaggc	gctcgccctc	gtcgccagag	gcgcggggat	600
163	cgccgtcagc	gatatttcgc	tcatccgcac	caacgaagcg	acgccggtga	ttggcgatgt	660
164	ggcgatggaa	accattaccg	aaaccatcat	caccgaatcg	accatgatcg	gccataaccc	720
165	gaaaacgccc	ggcggcgcg	ggcttggcac	aggcatcacc	attacgcgcg	aggagctgct	780
166	aaccgcggcg	gcggacgcgc	cctatatcct	ggtggtgtcg	tggcggttcg	atthttgcga	840
167	tatcgccagc	gtgattaacg	cttcctcgcg	cgccgggtat	cagattaccg	gcgtcatttt	900
168	acagcgcgac	gatggcgctg	tggtcagcaa	ccggctggaa	aaaccgctgc	cgatcggtga	960
169	cgaagtgtcg	tacatcgacc	gcattccgct	ggggatgctg	gcggcgattg	aggtcgccgt	1020
170	tccgggggaag	gtcatcgaaa	ccctctctaa	cccttacggc	atcgccaccg	tctttaacct	1080
171	cagccccgag	gagacgaaga	acatcgctcc	gatggcccg	gcgctgattg	gcaaccgttc	1140
172	cgccgtgtgtg	gtcaaaaacgc	catccggcga	cgtcaaaagcg	cgcgcgatac	ccgccggtaa	1200
173	tcttgagctg	ctggcccagg	gccgtagcgt	gcgcgtggat	gtggccgcgc	gcgccgaagc	1260
174	catcatgaaa	gcggtcgacg	gctgcggcag	gctcgataac	gtcacccggc	aatccggcac	1320
175	caatatcggc	ggcatgctgg	aacacgtgcg	ccagaccatg	gccgagctga	ccaacaagcc	1380
176	gagcagcgaa	atattttattc	aggacctgct	ggccgttgat	acctcggtac	cggtgagcgt	1440
177	taccggcggt	ctggccgggg	agttctcgct	ggagcaggcc	gtgggcatcg	cctcgatggt	1500
178	gaaatcggat	cgcttcgaga	tggcaatgat	cgcccgcgaa	atcgagcaga	agctcaatat	1560
179	cgacgtgcag	atcgccggcg	cagaggccga	agccgccatc	ctggggggcg	tgaccacgcc	1620
180	gggcaccacc	cgaccgctgg	cgatcctcga	cctcggcgcg	ggctccaccg	atgcctccat	1680
181	catcaacccc	aaaggcgaca	tcatcgccac	ccatctcgcc	ggcgcgaggc	acatggtgac	1740
182	gatgattatt	gcccgcgagc	tggggctgga	agaccgctat	ctggcggaag	agatcaagaa	1800
183	gtaccgcgtg	gctaagggtg	aaagcctgtt	ccatttacgc	cacgaggacg	gcagcgtgca	1860
184	gttcttctcc	acgccgctgc	cgcccgcctg	gttcgcccgc	gtctgcgtgg	tgaaagcgga	1920
185	cgaactgggtg	ccgctgcccc	gcgatttagc	gctggaaaaa	gtgcgcgcca	ttcgccgcag	1980
186	cgccaaagag	cggtgtcttg	tcaccaacgc	cctgcgcgcg	ctgcgtcagg	tcagccccac	2040
187	cggcaacatt	cgcgatattc	cggtcggtgg	gctggctcgg	ggttcgctcg	tggatttcga	2100
188	agtcccgag	ctggtcaccg	atgcgctggc	gcactaccgc	ctggttgccg	gacggggaaa	2160
189	tattcgcggc	agcgaggggc	cccgaacgcg	gggtggccacc	ggcctgattc	tctcctggca	2220
190	taaggagttt	gcgcatgaac	ggtaatcaca	gcgccccggc	catcgcgatc	gccgtcatcg	2280
191	acggctgcga	cgccctgtgg	cgcgaaagtgc	tgctgggtat	cgaagaggaa	ggtatccctt	2340
192	tccggctcca	gcatcacccg	gccggagagg	tctggtgacg	cgccctggcg	gcggcgcgca	2400

RAW SEQUENCE LISTING

DATE: 01/18/2007

PATENT APPLICATION: US/10/573,718A

TIME: 17:05:19

Input Set : N:\CrF4\01162007\J573728A.raw

Output Set: N:\CRF4\01182007\J573718A.raw

193	gctcgccgct	gctggtgggc	atcgccctgcg	accgccatat	gctggtcgctg	cactacaaga	2460
194	atttaccgcg	atcgggcgccg	cttttttacgc	tgatgcatca	tcaggacagt	caggcccatc	2520
195	gcaacaccgg	taataacgcg	gcacggctgg	tcaaggggat	ccctttccgg	gatctgaata	2580
196	gcgaagcaac	aggagaacag	caggatgaat	aagatctcgg	gtagcccgcc	taatgagcgg	2640
197	gctttttttt	atgagaatta	caacttatat	cgtatggggc	tgacttcagg	tgctacattt	2700
198	gaagagataa	attgactga	aatctagaaa	tattttatct	gattaataag	atgatcttct	2760
199	tgagatcggt	ttggtctgcg	cgtaatctct	tgctctgaaa	acgaaaaaac	cgcttgcag	2820
200	ggcggttttt	cgaaggttct	ctgagctacc	aactctttga	accgaggtaa	ctggcttgga	2880
201	ggagcgcagt	cacaaaaact	tgctctttca	gtttagcctt	aaccggcgca	tgacttcaag	2940
202	actaactcct	ctaaatcaat	taccagtggc	tgctgccagt	ggtgcttttg	catgtctttc	3000
203	cgggttgagc	tcaagacgat	agttaccgga	taaggcgagc	cggtcggact	gaacgggggg	3060
204	ttcgtgcata	cagtcagct	tggagcgaac	tgcttaccgc	gaactgagtg	tcaggcgtgg	3120
205	aatgagacaa	acgcggccat	aacagcggaa	tgacaccggt	aaaccgaaag	gcaggaacag	3180
206	gagagcgcac	gagggagccg	ccagggggaa	acgcctggta	tctttatagt	cctgtcgggt	3240
207	ttcgccacca	ctgatttgag	cgtcagattt	cgtgatgctt	gtcagggggg	cggagcctat	3300
208	ggaaaaacgg	ctttgccgcg	gccctctcac	ttccctgtta	agtatcttcc	tggtatcttc	3360
209	caggaaatct	ccgccccgtt	cgtaagccat	ttccgctcgc	cgcagtcgaa	cgaccgagcg	3420
210	tagcgagtcg	gtgagcgagg	aagcgggaat	tatcctgtat	cacatattct	gctgacgcac	3480
211	cgggtgcagc	ttttttctcc	tgccacatga	agcacttcac	tgacaccctc	atcagtgcc	3540
212	acatagtaag	ccagtataca	ctccgctagc	gctgatgtcc	ggcggtgctt	ttgccgttac	3600
213	gcaccacccc	gtcagtagct	gaacaggagg	gacagctgat	agaaacagaa	gccactggag	3660
214	cacctcaaaa	acaccatcat	acactaaatc	agtaagttgg	cagcatcacc	cgacgcactt	3720
215	tgcgccgaat	aaatacctgt	gacggaagat	cacttcgcag	aataaataaa	tcctggtgtc	3780
216	cctgttgata	ccgggaagcc	ctggggccaac	ttttggcgaa	aatgagacgt	tgatcggcac	3840
217	gtaagagggt	ccaactttca	ccataatgaa	ataagatcac	taccgggcgt	attttttgag	3900
218	ttatcgagat	tttcaggagc	taagggaagc	aaaatggaga	aaaaaatcac	tggtatatacc	3960
219	accgttgata	tatcccaatg	gcacgtgtaa	gaacattttg	aggcatttca	gtcagttgct	4020
220	caagtacact	ataaccagac	cgttcagctg	gatattacgg	cctttttaaa	gaccgtaaag	4080
221	aaaaataagc	acaagtttta	tccggccttt	attcacattc	ttgccgcctc	gatgaatgct	4140
222	catccggaat	ttcgtatggc	aatgaaagac	ggtgagctgg	tgatatggga	tagtggtcac	4200
223	ccttgttaca	ccgtttttcca	tgagcaaaact	gaaacgtttt	catcgctctg	gagtgaatac	4260
224	cacgacgatt	tccggcagtt	tctacacata	tattcgcaag	atgtggcggtg	ttacggtgaa	4320
225	aacctggcct	atttccctaa	aggggtttatt	gagaatatgt	ttttcgtctc	agccaatccc	4380
226	tggttgagtt	tcaccagttt	tgatttaaac	gtggccaata	tggaacaact	cttcgcccc	4440
227	gttttcacca	tgggcaaata	ttatacgcaa	ggcgacaagg	tgctgatgcc	gctggcgatt	4500
228	caggttcac	atgccgtctg	tgatggcttc	catgtcggca	gaatgcttaa	tgaattacaa	4560
229	cagtactgcg	atgagtggca	gggcggggcg	taattttttt	aaggcagtta	ttggtgccct	4620
230	taaacgcctg	gtgctacgcc	tgaataagtg	ataataagcg	gatgaatggc	agaaattcga	4680
231	aagcaaattc	gaccgggtcg	tccgttcagg	gcagggtcgt	taaatagccg	cttatgtcta	4740
232	ttgctggttt	accggtttat	tgactaccgg	aagcagtggtg	accgtgtgct	tctcaaatgc	4800
233	ctgaggccag	tttgctcagg	ctctccccgt	ggaggttaata	attgacgata	tgatcattta	4860
234	ttctgcctcc	caaagcaatt	ccgacaccat	cgaatggtgc	aaaacctttc	gcggtatggc	4920
235	atgatagcgc	ccggaagaga	gtcaattcag	ggtggtgaat	gtgaaaccag	taacgttata	4980
236	cgatgtcgca	gagtatgccg	gtgtctctta	tcagaccggt	tcccgcgtgg	tgaaccaggc	5040
237	cagccacggt	tctgcgaaaa	cgcgggaaaa	agtggaaagc	gcgatggcg	agctgaatta	5100
238	cattcccaac	cgcgtggcac	acaaactggc	gggcaaacag	tcgttgctga	ttggcggtgc	5160
239	cacctccagt	ctggccctgc	acgcgcctgc	gcgaattgtc	gcggcgatta	aatctcgcg	5220
240	cgatcaactg	ggtgccagcg	tggtggtgtc	gatggtagaa	cgaagcgcg	tcgaagcctg	5280
241	taaagcggcg	gtgcacaatc	ttctcgcgca	acgcgtcagt	gggctgatca	ttactatcc	5340

VERIFICATION SUMMARY

DATE: 01/18/2007

PATENT APPLICATION: US/10/573,718A

TIME: 17:05:20

Input Set : N:\Crf4\01162007\J573728A.raw

Output Set: N:\CRF4\01182007\J573718A.raw

L:13 M:270 C: Current Application Number differs, Replaced Current Application Number